

A B S T R A C T

The invention relates to sheet-shaped products processable by means of flow moulding

5 comprising carbon fibres and a radical-curable resin as the matrix, the fibres being present in the form of mats consisting of fibres with lengths of more than 1 cm and the volume percentage of the fibres relative to the resin being less than 70%, and the fibres moving

10 freely relative to one another in the mat during flow moulding, resulting in a net end product with a homogeneous fibre distribution. The invention also relates to a process for the production of sheet-shaped products by impregnating carbon fibre mats with a

15 radical-curable resin and thickening that resin to a desired thickness, and a process for the production of moulded parts with a tensile modulus of  $> 20$  GPa and a tensile strength of  $> 200$  MPa.

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